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 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  SEP 09   CA/CAplus records now contain indexing from 1907 to the
                   present
 NEWS  4  DEC 08   INPADOC: Legal Status data reloaded
 NEWS  5  SEP 29   DISSABS now available on STN
 NEWS  6  OCT 10   PCTFULL: Two new display fields added
 NEWS  7  OCT 21   BIOSIS file reloaded and enhanced
 NEWS  8  OCT 28   BIOSIS file segment of TOXCENTER reloaded and enhanced
 NEWS  9  NOV 24   MSDS-CCOHS file reloaded
 NEWS 10  DEC 08   CABA reloaded with left truncation
 NEWS 11  DEC 08   IMS file names changed
 NEWS 12  DEC 09   Experimental property data collected by CAS now available
                   in REGISTRY
 NEWS 13  DEC 09   STN Entry Date available for display in REGISTRY and CA/CAplus
 NEWS 14  DEC 17   DGENE: Two new display fields added
 NEWS 15  DEC 18   BIOTECHNO no longer updated
 NEWS 16  DEC 19   CROPU no longer updated; subscriber discount no longer
                   available
 NEWS 17  DEC 22   Additional INPI reactions and pre-1907 documents added to CAS
                   databases
 NEWS 18  DEC 22   IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
 NEWS 19  DEC 22   ABI-INFORM now available on STN
 NEWS 20  JAN 27   Source of Registration (SR) information in REGISTRY updated
                   and searchable
 NEWS 21  JAN 27   A new search aid, the Company Name Thesaurus, available in
                   CA/CAplus
 NEWS 22  FEB 05   German (DE) application and patent publication number format
                   changes
 NEWS 23  MAR 03   MEDLINE and LMEDLINE reloaded
 NEWS 24  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS 25  MAR 03   FRANCEPAT now available on STN

 NEWS EXPRESS  MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
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 NEWS WWW      CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 16:55:11 ON 09 MAR 2004

=> file medline, uspatful, dgene, embase, wpids, fsta, jicst, biosis,
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 16:55:39 ON 09 MAR 2004

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=> s Islet Neogenesis Associated Protein or INGAP
L1 2299 ISLET NEOGENESIS ASSOCIATED PROTEIN OR INGAP

=> s l1 and nucleotide
L2 52 L1 AND NUCLEOTIDE

=> s l2 and encoding protein
5 FILES SEARCHED...
L3 0 L2 AND ENCODING PROTEIN

=> ss l2 and primers
L4 36 L2 AND PRIMERS

=> s l4 and recombinant construct
L5 3 L4 AND RECOMBINANT CONSTRUCT

=> d l5 ti abs ibib tot

L5 ANSWER 1 OF 3 USPATFULL on STN
TI High level of expression of **ingap** in bacterial and euraryotic cells
AB Removal of the **nucleotide** sequence encoding the signal peptide from the **INGAP** coding sequence allows cultured cells to express substantial amounts of **INGAP** activity. Previous attempts have provided only low yields of **INGAP**, possibly because the signal sequence of **INGAP** is toxic to the cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 1998:108255 USPATFULL

TITLE: High level of expression of **ingap** in bacterial and euraryotic cells

INVENTOR(S): Vinik, Aaron I., Norfolk, VA, United States
Pittenger, Gary L., Virginia Beach, VA, United States
Rafaeloff-Phail, Ronit, Chesapeake, VA, United States
Barlow, Scott W., Norfolk, VA, United States

PATENT ASSIGNEE(S): Eastern Virginia Medical School of the Medical College fo Hampton Roads, Norfolk, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5804421		19980908
APPLICATION INFO.:	US 1997-909725		19970812 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-741096, filed on 30 Oct 1996, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Longton, Enrique D.
LEGAL REPRESENTATIVE: Banner & Witcoff, Ltd.
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 848
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 3 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI Expressing high levels of **INGAP** using recombinant constructs - comprising sequence encoding **INGAP** but with sequence encoding signal peptide removed, useful for **INGAP** production e.g. to treat diabetes
AN AAV30283 DNA DGENE
AB The **primers** AAV30282 and AAV30283 were used to exclude the **INGAP** 5'UTR and signal peptide sequence from a **recombinant construct** for expressing **INGAP** activity containing a **nucleotide** sequence encoding amino acids 27-175 of **INGAP** operably linked to a transcription initiation site and a translational initiation site. The construct can be used to produce biologically active **INGAP**, by culturing the transformed host cells. **INGAP** is found within a pancreatic extract called Ilotropin and is known to be responsible for stimulating cell regeneration of the pancreatic islets of Langerhans. The **INGAP** produced is useful in treatments to regenerate the islets of Langerhans to prevent or ameliorate the symptoms of diabetes mellitus. Previous methods have produced only low yields of **INGAP**, possibly because the **INGAP** signal sequence is toxic to bacteria.
ACCESSION NUMBER: AAV30283 DNA DGENE
TITLE: Expressing high levels of **INGAP** using recombinant constructs - comprising sequence encoding **INGAP** but with sequence encoding signal peptide removed, useful for **INGAP** production e.g. to treat diabetes
INVENTOR: Barlow S W; Pittenger G I; Rafaeloff R; Vinik A I
PATENT ASSIGNEE: (EVIR-N)EASTERN VIRGINIA MEDICAL SCHOOL.
PATENT INFO: WO 9818913 A1 19980507 22p
APPLICATION INFO: WO 1997-US19415 19971030
PRIORITY INFO: US 1996-741096 19961030
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 1998-272209 [24]
DESCRIPTION: **INGAP** 3' primer.

L5 ANSWER 3 OF 3 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI Expressing high levels of **INGAP** using recombinant constructs -

comprising sequence encoding **INGAP** but with sequence encoding signal peptide removed, useful for **INGAP** production e.g. to treat diabetes

AN AAV30282 DNA DGENE

AB The **primers** AAV30282 and AAV30283 were used to exclude the **INGAP** 5'UTR and signal peptide sequence from a **recombinant construct** for expressing **INGAP** activity containing a **nucleotide** sequence encoding amino acids 27-175 of **INGAP** operably linked to a transcription initiation site and a translational initiation site. The construct can be used to produce biologically active **INGAP**, by culturing the transformed host cells. **INGAP** is found within a pancreatic extract called Ilotropin and is known to be responsible for stimulating cell regeneration of the pancreatic islets of Langerhans. The **INGAP** produced is useful in treatments to regenerate the islets of Langerhans to prevent or ameliorate the symptoms of diabetes mellitus. Previous methods have produced only low yields of **INGAP**, possibly because the **INGAP** signal sequence is toxic to bacteria.

ACCESSION NUMBER: AAV30282 DNA DGENE
TITLE: Expressing high levels of **INGAP** using recombinant constructs - comprising sequence encoding **INGAP** but with sequence encoding signal peptide removed, useful for **INGAP** production e.g. to treat diabetes
INVENTOR: Barlow S W; Pittenger G I; Rafaeloff R; Vinik A I
PATENT ASSIGNEE: (EVIR-N)EASTERN VIRGINIA MEDICAL SCHOOL.
PATENT INFO: WO 9818913 A1 19980507 22p
APPLICATION INFO: WO 1997-US19415 19971030
PRIORITY INFO: US 1996-741096 19961030
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 1998-272209 [24]
DESCRIPTION: **INGAP** 5' primer.

=> d his

(FILE 'HOME' ENTERED AT 16:55:11 ON 09 MAR 2004)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 16:55:39 ON 09 MAR 2004

L1 2299 S ISLET NEOGENESIS ASSOCIATED PROTEIN OR INGAP
L2 52 S L1 AND NUCLEOTIDE
L3 0 S L2 AND ENCODING PROTEIN
L4 36 SS L2 AND PRIMERS
L5 3 S L4 AND RECOMBINANT CONSTRUCT

=> d l4 ti abs ibib 1-20

L4 ANSWER 1 OF 36 USPATFULL on STN
TI Gene expression in bladder tumors
AB Methods for analyzing tumor cells, particularly bladder tumor cells employ gene expression analysis of samples. Gene expression patterns are formed and compared to reference patterns. Alternatively gene expression patterns are manipulated to exclude genes which are expressed in contaminating cell populations. Another alternative employs subtraction of the expression of genes which are expressed in contaminating cell types. These methods provide improved accuracy as well as alternative basis for analysis from diagnostic and prognostic tools currently available.

ACCESSION NUMBER: 2004:50778 USPATFULL
TITLE: Gene expression in bladder tumors
INVENTOR(S): Orntoft, Torben F., Aabyhoj, DENMARK

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004038207	A1	20040226
APPLICATION INFO.:	US 2001-951968	A1	20010914 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 2000-510643, filed on 22 Feb 2000, UNKNOWN
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BANNER & WITCOFF, 1001 G STREET N W, SUITE 1100, WASHINGTON, DC, 20001
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Page(s)
LINE COUNT: 28561

L4 ANSWER 2 OF 36 USPATFULL on STN
TI Modified transferrin fusion proteins
AB Modified fusion proteins of transferrin and therapeutic proteins or peptides with increased serum half-life or serum stability are disclosed. Preferred fusion proteins include those modified so that the transferrin moiety exhibits no or reduced glycosylation, binding to iron and/or binding to the transferrin receptor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2004:31195 USPATFULL
TITLE: Modified transferrin fusion proteins
INVENTOR(S): Prior, Christopher P., Philadelphia, PA, UNITED STATES
PATENT ASSIGNEE(S): BioRexis Pharmaceutical Corporation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004023334	A1	20040205
APPLICATION INFO.:	US 2002-231494	A1	20020830 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-315745P	20010830 (60)
	US 2001-334059P	20011130 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC, 20004
NUMBER OF CLAIMS: 56
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Page(s)
LINE COUNT: 15780
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 36 USPATFULL on STN
TI Bone morphogenic protein polynucleotides, polypeptides, and antibodies
AB The present invention relates to novel human BMP polypeptides and isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human BMP polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human BMP polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2003:318756 USPATFULL
TITLE: Bone morphogenic protein polynucleotides, polypeptides, and antibodies
INVENTOR(S): Young, Paul E., Gaithersburg, MD, UNITED STATES
Ruben, Steven M., Brookeville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003224501	A1	20031204
APPLICATION INFO.:	US 2003-366345	A1	20030214 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2003-345236, filed on 16 Jan 2003, PENDING Continuation-in-part of Ser. No. US 2001-809269, filed on 16 Mar 2001, ABANDONED Continuation-in-part of Ser. No. WO 2001-US9229, filed on 23 Mar 2001, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-356749P	20020215 (60)
	US 2000-190067P	20000317 (60)
	US 2002-348621P	20020117 (60)
	US 2002-349356P	20020122 (60)
	US 2002-351520P	20020128 (60)
	US 2002-354265P	20020206 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 42
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 23 Drawing Page(s)
LINE COUNT: 16963
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 36 USPATFULL on STN
TI Bone morphogenic protein polynucleotides, polypeptides, and antibodies
AB The present invention relates to novel human BMP polypeptides and isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human BMP polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human BMP polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2003:306402 USPATFULL
TITLE: Bone morphogenic protein polynucleotides, polypeptides, and antibodies
INVENTOR(S): Young, Paul E., Gaithersburg, MD, UNITED STATES
Ruben, Steven M., Brookeville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003215836	A1	20031120
APPLICATION INFO.:	US 2003-345236	A1	20030116 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2001-809269, filed on 16 Mar 2001, ABANDONED Continuation-in-part of Ser. No. WO 2001-US9229, filed on 23 Mar 2001, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-190067P	20000317 (60)
	US 2002-348621P	20020117 (60)
	US 2002-349356P	20020122 (60)
	US 2002-351520P	20020128 (60)
	US 2002-354265P	20020206 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 41
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Page(s)
LINE COUNT: 17572
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 36 USPATFULL on STN
TI Assay for the detection of factors that modulate the expression of **INGAP**
AB A reporter construct contains mammalian **INGAP** 5'-regulatory region or a fragment thereof, a minimal promoter element from mammalian **INGAP** or a heterologous promoter, and a reporter gene. The reporter construct can be used to screen for agents which alone or in combination up-regulate or down-regulate reporter gene expression. Alternatively, the reporter construct can be used to screen for agents that bind to the hamster **INGAP** 5'-regulatory region or a fragment thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2003:294286 USPATFULL
TITLE: Assay for the detection of factors that modulate the expression of **INGAP**
INVENTOR(S): Taylor-Fishwick, David A., Norfolk, VA, UNITED STATES
Vinik, Aaron I., Norfolk, VA, UNITED STATES
PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, UNITED STATES, 45224 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003207301	A1	20031106
APPLICATION INFO.:	US 2003-339767	A1	20030109 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-388315P	20020614 (60)
	US 2002-361073P	20020301 (60)
	US 2002-346898P	20020111 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: THE PROCTER & GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION, WINTON HILL TECHNICAL CENTER - BOX 161, 6110 CENTER HILL AVENUE, CINCINNATI, OH, 45224
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Page(s)
LINE COUNT: 2709
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 36 USPATFULL on STN
TI Cyanine dye compounds and labeling methods
AB A novel cyanine dye having the formula ##STR1##

is useful for labeling biological and nonbiological molecules.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2003:190696 USPATFULL
TITLE: Cyanine dye compounds and labeling methods
INVENTOR(S): Narayanan, Narasimhachari, Lincoln, NE, United States
PATENT ASSIGNEE(S): Li-Cor, Inc., Lincoln, NE, United States (U.S. corporation)

	NUMBER	KIND	DATE

PATENT INFORMATION: US 6593148 B1 20030715
APPLICATION INFO.: US 2000-520770 20000307 (9)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-143153, filed on 20 Aug 1998, now abandoned Division of Ser. No. US 1995-500691, filed on 11 Jul 1995, now patented, Pat. No. US 6086737 Continuation-in-part of Ser. No. US 1994-204627, filed on 1 Mar 1994, now patented, Pat. No. US 5571388
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Ceperley, Mary E.
LEGAL REPRESENTATIVE: Rothwell, Figg, Ernst & Manbeck
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 1025
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 36 USPATFULL on STN
TI Full-length serine protein kinase in brain and pancreas
AB The present invention relates to all facets of novel polynucleotides, the polypeptides they encode, antibodies and specific binding partners thereto, and their applications to research, diagnosis, drug discovery, therapy, clinical medicine, forensic science, pathology, and medicine, etc. The polynucleotides are expressed in brain and pancreas and are therefore useful in variety of ways, including, but not limited to, as molecular markers, as drug targets, and for detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, determining predisposition to, etc., diseases and conditions, especially relating to brain and pancreas.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2003:140430 USPATFULL
TITLE: Full-length serine protein kinase in brain and pancreas
INVENTOR(S): Shu, Youmin, Potomac, MD, UNITED STATES
Fan, Wufang, Germantown, MD, UNITED STATES
Kovacs, Karl F., Rockville, MD, UNITED STATES
Zidanic, Michael, Derwood, MD, UNITED STATES
Jay, Gilbert, North Bethesda, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003096271	A1	20030522
APPLICATION INFO.:	US 2002-195071	A1	20020715 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-930181, filed on 16 Aug 2001, GRANTED, Pat. No. US 6455292
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ORIGENE TECHNOLOGIES, INCORPORATED, 6 TAFT COURT, SUITE 100, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 2764
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 36 USPATFULL on STN
TI Full-length serine protein kinase in brain and pancreas
AB The present invention relates to all facets of novel polynucleotides, the polypeptides they encode, antibodies and specific binding partners thereto, and their applications to research, diagnosis, drug discovery, therapy, clinical medicine, forensic science, pathology, and medicine, etc. The polynucleotides are expressed in brain and pancreas and are therefore useful in variety of ways, including, but not limited to, as

molecular markers, as drug targets, and for detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, determining predisposition to, etc., diseases and conditions, especially relating to brain and pancreas.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:	2003:133951 USPATFULL
TITLE:	Full-length serine protein kinase in brain and pancreas
INVENTOR(S):	Shu, Youmin, Potomac, MD, UNITED STATES Fan, Wufang, Germantown, MD, UNITED STATES Kovacs, Karl F., Rockville, MD, UNITED STATES Zidanic, Michael, Derwood, MD, UNITED STATES Jay, Gilbert, North Bethesda, MD, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003092036	A1	20030515	
APPLICATION INFO.:	US 2002-195072	A1	20020715	(10)

RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-930181, filed on 16 Aug 2001, GRANTED, Pat. No. US 6455292
DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	ORIGENE TECHNOLOGIES, INCORPORATED, 6 TAFT COURT, SUITE 100, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS:	21
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	3 Drawing Page(s)
LINE COUNT:	2773

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 9 OF 36 USPATFULL on STN

TI Full-length serine protein kinase in brain and pancreas

AB The present invention relates to all facets of novel polynucleotides, the polypeptides they encode, antibodies and specific binding partners thereto, and their applications to research, diagnosis, drug discovery, therapy, clinical medicine, forensic science, pathology, and medicine. The polynucleotides are expressed in brain and pancreas and are therefore useful in variety of ways, including, but not limited to, as molecular markers, as drug targets, and for detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, determining predisposition to diseases and conditions, especially relating to brain and pancreas.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:	2002:246571 USPATFULL
TITLE:	Full-length serine protein kinase in brain and pancreas
INVENTOR(S):	Shu, Youmin, Potomac, MD, United States Fan, Wufang, Germantown, MD, United States Kovacs, Karl F., Rockville, MD, United States Zidanic, Michael, Derwood, MD, United States Jay, Gilbert, North Bethesda, MD, United States
PATENT ASSIGNEE(S):	OriGene Technologies, Inc, Rockville, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6455292	B1	20020924	
APPLICATION INFO.:	US 2001-930181		20010816	(9)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	GRANTED
PRIMARY EXAMINER:	Murthy, Ponnathapuachuta
ASSISTANT EXAMINER:	Ramirez, Delia
LEGAL REPRESENTATIVE:	Lebovitz, Richard M.
NUMBER OF CLAIMS:	6

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 2617
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 36 USPATFULL on STN
TI Gene markers for chronic mucosal injury
AB The invention provides gene markers for chronic mucosal injury and ulcerative colitis. Expression products of the REG gene family can be used to detect the presence of chronic mucosal injury in a body sample of a human. The expression products of a gene represented by a Hs. 111244 polynucleotide can be used to detect ulcerative colitis in a body sample of a human. Further, these markers can be used to differentiate humans with chronic mucosal injury from humans with common acute inflammatory colon disorder, common non-inflammatory benign colon disorder, and healthy colons. The degree of injury to the colon from chronic mucosal injury can be determined and the efficacy of therapy for chronic mucosal injury can be monitored. A method of screening compounds for anti-chronic mucosal injury and anti-ulcerative activity is also provided by these gene markers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2002:54606 USPATFULL
TITLE: Gene markers for chronic mucosal injury
INVENTOR(S): Dieckgraefe, Brian K., St. Louis, MO, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002031767	A1	20020314
APPLICATION INFO.:	US 2000-739262	A1	20001219 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1998-146969, filed on 4 Sep 1998, GRANTED, Pat. No. US 6228585
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BANNER & WITCOFF, 1001 G STREET N W, SUITE 1100, WASHINGTON, DC, 20001
NUMBER OF CLAIMS: 76
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 870
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 11 OF 36 USPATFULL on STN
TI Gene markers for chronic mucosal injury
AB The invention provides gene markers for chronic mucosal injury and ulcerative colitis. Expression products of the REG gene family can be used to detect the presence of chronic mucosal injury in a body sample of a human. The expression products of a gene represented by a Hs.111244 polynucleotide can be used to detect ulcerative colitis in a body sample of a human. Further, these markers can be used to differentiate humans with chronic mucosal injury from humans with common acute inflammatory colon disorder, common non-inflammatory benign colon disorder, and healthy colons. The degree of injury to the colon from chronic mucosal injury can be determined and the efficacy of therapy for chronic mucosal injury can be monitored. A method of screening compounds for anti-chronic mucosal injury and anti-ulcerative activity is also provided by these gene markers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2001:67396 USPATFULL
TITLE: Gene markers for chronic mucosal injury
INVENTOR(S): Dieckgraefe, Brian K., St. Louis, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6228585	B1	20010508
APPLICATION INFO.:	US 1998-146969		19980904 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Arthur, Lisa B.
LEGAL REPRESENTATIVE: Banner & Witcoff LTD
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 531
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 12 OF 36 USPATFULL on STN
TI **Ingap** protein involved in pancreatic islet neogenesis
AB Cellophane wrapping (CW) of hamster pancreas induces proliferation of duct epithelial cells followed by endocrine cell differentiation and islet neogenesis. Using the mRNA differential display technique a cDNA clone expressed in cellophane wrapped but not in control pancreata was identified. Using this cDNA as a probe, a cDNA library was screened and a gene not previously described was identified and named **INGAP**
.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 1998:147253 USPATFULL
TITLE: **Ingap** protein involved in pancreatic islet neogenesis
INVENTOR(S): Vinik, Aaron I., Norfolk, VA, United States
Pittenger, Gary L., Virgina Beach, VA, United States
Rafaeloff, Ronit, Chesapeake, VA, United States
Rosenberg, Lawrence, Montreal, Canada
Duguid, William P., Montreal, Canada
PATENT ASSIGNEE(S): MoGill University, Canada (non-U.S. corporation)
Eastern Virginia Medical School of the Medicine College of Hampton Roads, Norfolk, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5840531		19981124
APPLICATION INFO.:	US 1996-709662		19960909 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-401530, filed on 22 Feb 1995
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Grimes, Eric
ASSISTANT EXAMINER: Longton, Enrique D.
LEGAL REPRESENTATIVE: Banner & Witocoff, Ltd
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 969
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 13 OF 36 USPATFULL on STN
TI **Ingap** protein involved in pancreatic islet neogenesis
AB Cellophane wrapping (CW) of hamster pancreas induces proliferation of duct epithelial cells followed by endocrine cell differentiation and islet neogenesis. Using the mRNA differential display technique a cDNA clone expressed in cellophane wrapped but not in control pancreata was identified. Using this cDNA as a probe, a cDNA library was screened and a gene not previously described was identified and named **INGAP**

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:	1998:139021 USPATFULL
TITLE:	**Ingap** protein involved in pancreatic islet neogenesis
INVENTOR(S):	Vinik, Aaron I., Norfolk, VA, United States Pittenger, Gary L., Virginia Beach, VA, United States Rafaeloff, Ronit, Norfolk, VA, United States Rosenberg, Lawrence, Montreal, Canada Duguid, William P., Montreal, Canada
PATENT ASSIGNEE(S):	Eastern Virginia Medical School of the Medical College of Hampton Roads, Norfolk, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5834590		19981110	
APPLICATION INFO.:	US 1995-401530		19950222	(8)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	Granted			
PRIMARY EXAMINER:	Wax, Robert A.			
ASSISTANT EXAMINER:	Longton, Enrique D.			
LEGAL REPRESENTATIVE:	Banner & Witcoff, Ltd.			
NUMBER OF CLAIMS:	24			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 4 Drawing Page(s)			
LINE COUNT:	941			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 14 OF 36 USPATFULL on STN

TI High level of expression of **ingap** in bacterial and euraryotic cells

AB Removal of the **nucleotide** sequence encoding the signal peptide from the **INGAP** coding sequence allows cultured cells to express substantial amounts of **INGAP** activity. Previous attempts have provided only low yields of **INGAP**, possibly because the signal sequence of **INGAP** is toxic to the cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:	1998:108255 USPATFULL
TITLE:	High level of expression of **ingap** in bacterial and euraryotic cells
INVENTOR(S):	Vinik, Aaron I., Norfolk, VA, United States Pittenger, Gary L., Virginia Beach, VA, United States Rafaeloff-Phail, Ronit, Chesapeake, VA, United States Barlow, Scott W., Norfolk, VA, United States
PATENT ASSIGNEE(S):	Eastern Virginia Medical School of the Medical College fo Hampton Roads, Norfolk, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5804421		19980908	
APPLICATION INFO.:	US 1997-909725		19970812	(8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-741096, filed on 30 Oct 1996, now abandoned			
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	Granted			
PRIMARY EXAMINER:	Wax, Robert A.			
ASSISTANT EXAMINER:	Longton, Enrique D.			
LEGAL REPRESENTATIVE:	Banner & Witcoff, Ltd.			
NUMBER OF CLAIMS:	18			
EXEMPLARY CLAIM:	1			

NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 848
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 15 OF 36 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.
AN ACF05867 DNA DGENE
AB The present sequence is that of PCR primer INGEN 13_5, corresponding to nucleotides 5463-5485 of the hamster islet neogenesis gene associated protein (**INGAP**) gene. It is one of a set of **primers** (see ACF05852-71) used to generate PCR fragments of the **INGAP** gene, which were subsequently sequenced to determine the **nucleotide** sequence (see ACF05851) of the **INGAP** 5' regulatory region, the introns, the intron/exon junctions, and the 3' polyadenylation region. The 5' regulatory region of the **INGAP** gene is susceptible to modulation by many known transcription factors, and is used in claimed screening assays to identify agents capable of modulating **INGAP** gene expression. These modulating agents have potential as therapeutic agents for treating type 1 and type 2 diabetes mellitus, endocrine and non-endocrine hypoplasia, hypertrophy, adenoma, neoplasia and nesidioblastosis
ACCESSION NUMBER: ACF05867 DNA DGENE
TITLE: New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.
INVENTOR: Taylor-Fishwick D; Vinik A I
PATENT ASSIGNEE: (GMPE-N)GMP ENDOTHERAPEUTICS INC.
PATENT INFO: WO 2003060096 A2 20030724 118p
APPLICATION INFO: WO 2003-US707 20030110
PRIORITY INFO: US 2002-346898P 20020111
US 2002-361073P 20020301
US 2002-388315P 20020614
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2003-598524 [56]
DESCRIPTION: Hamster **INGAP** gene PCR primer INGEN 13_5.

L4 ANSWER 16 OF 36 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.
AN ACF05869 DNA DGENE
AB The present sequence is that of PCR primer INGAP1_1R, corresponding to nucleotides 5957-5976 of the hamster islet neogenesis gene associated protein (**INGAP**) gene. It is one of a set of **primers** (see ACF05852-71) used to generate PCR fragments of the **INGAP** gene, which were subsequently sequenced to determine the **nucleotide** sequence (see ACF05851) of the **INGAP** 5' regulatory region, the introns, the intron/exon junctions, and the 3' polyadenylation region. The 5' regulatory region of the **INGAP** gene is susceptible to modulation by many known transcription factors, and is used in claimed screening assays to identify agents capable of modulating **INGAP** gene expression. These modulating agents have potential as therapeutic agents for treating type 1 and type 2 diabetes mellitus, endocrine and non-endocrine hypoplasia, hypertrophy, adenoma, neoplasia and nesidioblastosis
ACCESSION NUMBER: ACF05869 DNA DGENE
TITLE: New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced

islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.
INVENTOR: Taylor-Fishwick D; Vinik A I
PATENT ASSIGNEE: (GMPE-N)GMP ENDOTHERAPEUTICS INC.
PATENT INFO: WO 2003060096 A2 20030724 118p
APPLICATION INFO: WO 2003-US707 20030110
PRIORITY INFO: US 2002-346898P 20020111
US 2002-361073P 20020301
US 2002-388315P 20020614
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2003-598524 [56]
DESCRIPTION: Hamster **INGAP** gene PCR primer INGAP1_1R.

L4 ANSWER 17 OF 36 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.
AN ACF05853 DNA DGENE
AB The present sequence is that of PCR primer INGEN 19_3, corresponding to nucleotides 1401-1423 of the hamster islet neogenesis gene associated protein (**INGAP**) gene. It is one of a set of **primers** (see ACF05852-71) used to generate PCR fragments of the **INGAP** gene, which were subsequently sequenced to determine the **nucleotide** sequence (see ACF05851) of the **INGAP** 5' regulatory region, the introns, the intron/exon junctions, and the 3' polyadenylation region. The 5' regulatory region of the **INGAP** gene is susceptible to modulation by many known transcription factors, and is used in claimed screening assays to identify agents capable of modulating **INGAP** gene expression. These modulating agents have potential as therapeutic agents for treating type 1 and type 2 diabetes mellitus, endocrine and non-endocrine hypoplasia, hypertrophy, adenoma, neoplasia and nesidioblastosis
ACCESSION NUMBER: ACF05853 DNA DGENE
TITLE: New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.
INVENTOR: Taylor-Fishwick D; Vinik A I
PATENT ASSIGNEE: (GMPE-N)GMP ENDOTHERAPEUTICS INC.
PATENT INFO: WO 2003060096 A2 20030724 118p
APPLICATION INFO: WO 2003-US707 20030110
PRIORITY INFO: US 2002-346898P 20020111
US 2002-361073P 20020301
US 2002-388315P 20020614
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2003-598524 [56]
DESCRIPTION: Hamster **INGAP** gene PCR primer INGEN 19_3.

L4 ANSWER 18 OF 36 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.
AN ACF05859 DNA DGENE
AB The present sequence is that of PCR primer INGEN 7_3, corresponding to nucleotides 2666-2689 of the hamster islet neogenesis gene associated protein (**INGAP**) gene. It is one of a set of **primers** (see ACF05852-71) used to generate PCR fragments of the **INGAP** gene, which were subsequently sequenced to determine the **nucleotide** sequence (see ACF05851) of the **INGAP** 5' regulatory region, the introns, the intron/exon junctions, and the 3'

polyadenylation region. The 5' regulatory region of the **INGAP** gene is susceptible to modulation by many known transcription factors, and is used in claimed screening assays to identify agents capable of modulating **INGAP** gene expression. These modulating agents have potential as therapeutic agents for treating type 1 and type 2 diabetes mellitus, endocrine and non-endocrine hypoplasia, hypertrophy, adenoma, neoplasia and nesidioblastosis

ACCESSION NUMBER: ACF05859 DNA DGENE
TITLE: New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.
INVENTOR: Taylor-Fishwick D; Vinik A I
PATENT ASSIGNEE: (GMPE-N)GMP ENDOTHERAPEUTICS INC.
PATENT INFO: WO 2003060096 A2 20030724 118p
APPLICATION INFO: WO 2003-US707 20030110
PRIORITY INFO: US 2002-346898P 20020111
US 2002-361073P 20020301
US 2002-388315P 20020614
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2003-598524 [56]
DESCRIPTION: Hamster **INGAP** gene PCR primer INGEN 7_3.

L4 ANSWER 19 OF 36 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.
AN ACF05868 DNA DGENE
AB The present sequence is that of PCR primer INGAP1_1L, corresponding to nucleotides 3475-3492 of the hamster islet neogenesis gene associated protein (**INGAP**) gene. It is one of a set of **primers** (see ACF05852-71) used to generate PCR fragments of the **INGAP** gene, which were subsequently sequenced to determine the **nucleotide** sequence (see ACF05851) of the **INGAP** 5' regulatory region, the introns, the intron/exon junctions, and the 3' polyadenylation region. The 5' regulatory region of the **INGAP** gene is susceptible to modulation by many known transcription factors, and is used in claimed screening assays to identify agents capable of modulating **INGAP** gene expression. These modulating agents have potential as therapeutic agents for treating type 1 and type 2 diabetes mellitus, endocrine and non-endocrine hypoplasia, hypertrophy, adenoma, neoplasia and nesidioblastosis

ACCESSION NUMBER: ACF05868 DNA DGENE
TITLE: New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.
INVENTOR: Taylor-Fishwick D; Vinik A I
PATENT ASSIGNEE: (GMPE-N)GMP ENDOTHERAPEUTICS INC.
PATENT INFO: WO 2003060096 A2 20030724 118p
APPLICATION INFO: WO 2003-US707 20030110
PRIORITY INFO: US 2002-346898P 20020111
US 2002-361073P 20020301
US 2002-388315P 20020614
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2003-598524 [56]
DESCRIPTION: Hamster **INGAP** gene PCR primer INGAP1_1L.

L4 ANSWER 20 OF 36 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
TI New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or

aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.

AN ACF05863 DNA DGENE

AB The present sequence is that of PCR primer INGEN 1_3, corresponding to nucleotides 3475-3501 of the hamster islet neogenesis gene associated protein (**INGAP**) gene. It is one of a set of **primers** (see ACF05852-71) used to generate PCR fragments of the **INGAP** gene, which were subsequently sequenced to determine the **nucleotide** sequence (see ACF05851) of the **INGAP** 5' regulatory region, the introns, the intron/exon junctions, and the 3' polyadenylation region. The 5' regulatory region of the **INGAP** gene is susceptible to modulation by many known transcription factors, and is used in claimed screening assays to identify agents capable of modulating **INGAP** gene expression. These modulating agents have potential as therapeutic agents for treating type 1 and type 2 diabetes mellitus, endocrine and non-endocrine hypoplasia, hypertrophy, adenoma, neoplasia and nesidioblastosis

ACCESSION NUMBER: ACF05863 DNA DGENE

TITLE: New isolated **INGAP** nucleic acid, useful for diagnosing and treating disorders associated with reduced islet cell function and/or aberrant expression or activity of **INGAP**, such as type II diabetes mellitus.

INVENTOR: Taylor-Fishwick D; Vinik A I

PATENT ASSIGNEE: (GMPE-N)GMP ENDOTHERAPEUTICS INC.

PATENT INFO: WO 2003060096 A2 20030724 118p

APPLICATION INFO: WO 2003-US707 20030110

PRIORITY INFO: US 2002-346898P 20020111
US 2002-361073P 20020301
US 2002-388315P 20020614

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2003-598524 [56]

DESCRIPTION: Hamster **INGAP** gene PCR primer INGEN 1_3.